

PATENT
18810-81553

July 2, 2001


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Daniel H. Cohn, Muhammad Faiyaz ul Haque, Lily M. King and
Deborah Krakow
Serial No. UNASSIGNED
Filed: Herewith
For: GENETIC MARKER FOR SPONDYLOEPIMETAPHYSEAL
DYSPLASIA

Examiner: Unknown

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Dear Sir:

Applicant's attorney submits herewith copies of the patents and/or other literature of which he is aware, that he believes may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 C.F.R. § 1.56.

Applicant's attorney further submits herewith Form PTO-1449, "Information Disclosure Statement" by Applicant. A copy of each of the disclosed patents and other references listed as other documents Nos. 1-71 is not being submitted herewith, because under Rule 37 C.F.R. § 1.98(d) this art was previously cited by the Examiner and/or the Applicant in connection with U.S. Serial No. 09/399,212, filed September 17, 1999. This previously filed Application was cited by applicant in this present Application per 35 U.S.C. §§ 120 and 119(e).

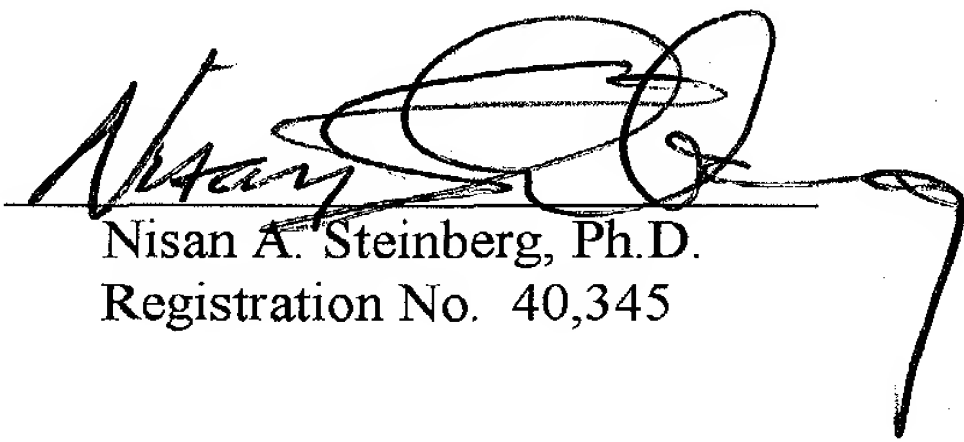


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This information disclosure statement is being filed herewith along with a divisional application and believe there is no fee involved. However, the Commissioner is hereby authorized to charge any fees required to Deposit Account No. 50-1597.

Respectfully submitted,

By:



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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
	5,106,626	04/21/92	Parsons et al.			
	5,525,500	06/11/96	Khandke et al.			
	5,627,050	05/06/97	Takeshita et al.			
	5,750,651	05/12/98	Oppermann et al.			
	5,869,273	02/09/99	Klock			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES	TRANSLATION No

OTHER ART (Including Author, title, Date, Pertinent Pages, Etc.)

1.	Adams, T. E., <i>Differential expression of growth hormone receptor messenger RNA from a second promoter</i> , <u>Mol Cell Endocrinol</u> , 108(1-2):23-33 (Feb 27, 1995). ABSTRACT ONLY.
2.	Ahmad M. et al., <i>Distinct, autosomal recessive form of spondyloepimetaphyseal dysplasia segregating in an inbred Pakistani kindred</i> , <u>Am J. Med Genet</u> , 78(5):468-73, (Aug 6, 1998).
3.	Alexeev, V. et al., <i>Stable and inheritable changes in genotype and phenotype of albino melanocytes induced by an RNA-DNA oligonucleotide</i> , <u>Nat Biotechnol</u> , 16(13):1343-6 (Dec 1998). ABSTRACT ONLY.
4.	Apte, S. S. et al., <i>Characterization of the mouse type X collagen gene</i> , <u>Matrix</u> 13(2):165-79 (Mar 1993). ABSTRACT ONLY.
5.	Ballo, R. et al., <i>Multiple epiphyseal dysplasia, ribbing type: a novel point mutation in the COMP gene in a South African family</i> , <u>Am J. Med Genet</u> , 68(4):396-400 (Feb 11, 1997). ABSTRACT ONLY
6.	Beier, F., et al., <i>Localization of silencer and enhancer elements in the human type X collagen gene</i> , <u>J Cell Biochem</u> 66(2):210-8 (Aug 1997). ABSTRACT ONLY.

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7.	Boffa, M. B., <i>Characterization of the gene encoding human TAFI (thrombinactivable fibrinolysis inhibitor; plasma procarboxypeptidase B)</i> , <u>Biochemsitry</u> , 38(20):6547-58 (May 18, 1999). ABSTRACT ONLY.
8.	Bonaventure, J. et al., <i>Common mutations in the gene encoding fibroblast growth factor receptor 3 account for achondroplasia, hypochondroplasia and thanatophoric dysplasia</i> , <u>Acta Paediatr Suppl</u> , 417:33-8 (Oct 1996). ABSTRACT ONLY.
9.	Briggs, M.D. et al., <i>Genetic mapping of a locus for multiple epiphyseal dysplasia (EDM2) to a region of chromosome 1 containing a type IX collagen gene</i> , <u>Am J. Hum Genet</u> , 55(4):678-84 (Oct 1994). ABSTRACT ONLY
10.	Briggs, M. D. et al., <i>Pseudoachondroplasia and multiple epiphyseal dysplasia due to mutations in the cartilage oligomeric matrix protein gene</i> , <u>Nat Genet</u> , 10(3):330-6 (Jul 1995). ABSTRACT ONLY.
11.	Briggs, M. D. et al., <i>Diverse mutations in the gene for cartilage oligomeric matrix protein in the pseudoachondroplasia-multiple epiphyseal dysplasia disease spectrum</i> , <u>Am J. Hum Genet</u> , 62(2):311-9 (Feb 1998). ABSTRACT ONLY.
12.	Chen, J. et al., <i>Hepatocyte nuclear factor 1 binds to and transactivates the human but not the rat CYP7A1 promoter</i> , <u>Biochem Biophys Res Commun</u> , 260(3):829-34 (Jul 14, 1999). ABSTRACT ONLY.
13.	Chen, X. L. et al., <i>Analysis of a 762-bp Proximal Leptin Promoter to Drive and Control Regulation of Transgene Expression of Growth Hormone Receptor in Mice</i> , <u>Biochem Biophys Res Commun</u> , 262(1):187-192 (Aug 19, 1999). ABSTRACT ONLY.
14.	Cole-Strauss, A. et al., <i>Correction of the mutation responsible for sickle cell anemia by an RNA-DNA oligonucleotide</i> , <u>Science</u> , 273(5280):1386-9 (Sep 6, 1996). ABSTRACT ONLY.
15.	Cole-Strauss, A. et al., <i>Targeted gene repair directed by the chimeric RNA/DNA oligonucleotide in a mammalian cell-free extract</i> , <u>Nucleic Acids Res</u> , 27(5):1323-30 (Mar 1, 1999). ABSTRACT ONLY.
16.	Deyrup, A. T. et al., <i>Deletion and site-directed mutagenesis of the ATP-binding motif (P-loop) in the bifunctional murine ATP-sulfurylase/adenosine 5'-phosphosulfate kinase enzyme</i> , <u>J Biol Chem</u> , 273(16):9450-6 (Apr 17, 1998).
17.	Dharmavaram, R. M., et al., <i>Detection and characterization of Sp1 binding activity in human chondrocytes and its alterations during chondrocyte dedifferentiation</i> , <u>J. Biol Chem</u> , 272(43):26918-25 (Oct 24 1997). ABSTRACT ONLY.
18.	Faiyaz ul Haque, Muhammad et al., <i>Mutations in orthologous genes in human spondyloepimetaphyseal dysplasia and the brachymorphic mouse</i> , <u>Nature Genetics</u> , Vol. 20, pp. 157-162. (Oct 1998).
19.	Figuera, L. E. et al., <i>Spondyloepimetaphyseal dysplasia (SEMD) Shohat type</i> , <u>Am J. Med Genet</u> , 51(3):213-5 (Jul 1994). ABSTRACT ONLY.
20.	Ganguly, A., et al., <i>Targeted insertions of two exogenous collagen genes into both alleles of their endogenous loci in cultured human cells: the insertions are directed by relatively short fragments containing the promoters and the 5' ends of the genes</i> , <u>Proc Natl Acad Sci USA</u> , 91(15):7365-9 (Jul 19 1994). ABSTRACT ONLY.
21.	Gertner, J. M. et al., <i>Linkage studies of a Missouri kindred with autosomal dominant spondyloepimetaphyseal dysplasia (SEMD) indicate genetic heterogeneity</i> , <u>J Bone Miner Res</u> , 12(8):1204-9 (Aug 12, 1997). ABSTRACT ONLY.
22.	Girard, J. P. et al., <i>Biosynthesis of sulfated L-selectin ligands in human high endothelial venules (HEV)</i> , <u>GlycoImmunology</u> , 2:55-62 (1998).
23.	Girard, J. P. et al., <i>Sulfation in high endothelial venules: cloning and expression of the human PAPS synthetase</i> , <u>FASEB</u> , 12(7):603-12 (May 1998).
24.	Ikegawa, S. et al., <i>Novel and recurrent COMP (cartilage oligomeric matrix protein) mutations in pseudoachondroplasia and multiple epiphyseal dysplasia</i> , <u>Hum Genet</u> , 103(6):633-8 (Dec 1998). ABSTRACT ONLY.

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25.	Jacenko, O. et al., <i>Transgenic mouse models in studies of skeletal disorders</i> , <u>J Rheumatol Suppl</u> 43:39-41 (Feb 1995). ABSTRACT ONLY.
26.	Jiang, H. et al., <i>Isolation and characterization of a novel promoter for the bovine growth hormone receptor gene</i> , <u>J Biol Chem</u> , 274(12):7893-900 (Mar 19, 1999). ABSTRACT ONLY.
27.	Kanai, Y et al., <i>Structural and functional characterization of the mouse Sox9 promoter: implications for campomelic dysplasia</i> , <u>Hum Mol Genet</u> , 8(4):691-6 (Apr 1999). ABSTRACT ONLY.
28.	Kant, S. G. et al., <i>Acromesomelic dysplasia Maroteau type maps to human chromosome 9</i> , <u>Am J Hum Genet</u> , 63(1):155-62 (Jul 1998). ABSTRACT ONLY.
29.	Kanzler, S. et al., <i>TGF-beta1 in liver fibrosis: an inducible transgenic mouse model to study liver fibrogenesis</i> , <u>Am J Physiol</u> , 276(4 Pt 1):G1059-68 (Apr 1999). ABSTRACT ONLY.
30.	Kren, B. T. et al., <i>Gene repair using chimeric RNA/DNA oligonucleotides</i> , <u>Semin Liver Dis</u> , 19(1):93-104 (1999). ABSTRACT ONLY.
31.	Kurima, K. et al., <i>A member of a family of sulfate-activating enzymes causes murine brachymorphism</i> , <u>Proc Natl Acad Sci USA</u> , 95(15):8681-5 (Jul 21, 1998).
32.	Lee, B. et al., <i>Identification of the molecular defect in a family with spondyloepiphyseal dysplasia</i> , <u>Science</u> , 244(4907):978-80 (May 26, 1989). ABSTRACT ONLY.
33.	Lefebvre, V., et al., <i>An 18-base-pair sequence in the mouse proalpha1(II) collagen gene is sufficient for expression in cartilage and binds nuclear proteins that are selectively expressed in chondrocytes</i> , <u>Mol Cell Biol</u> , 16(8):4512-23 (Aug 16, 1996). ABSTRACT ONLY.
34.	Li, H. et al., <i>The isolation and characterization of cDNA encoding the mouse bifunctional ATP sulfurylase-adenosine 5'-phosphosulfate kinase</i> , <u>J Biol Chem</u> , 270(49):29453-9 (Dec 8, 1995).
35.	Li, Y et al., <i>Murine models of human genetic skeletal disorders</i> , <u>Matrix Biol</u> , 16(2):49-52. (May 1997). ABSTRACT ONLY.
36.	Lyle, S. et al., <i>Rat chondrosarcoma ATP sulfurylase and adenosine 5'-phosphosulfate kinase reside on a single bifunctional protein</i> , <u>Biochemistry</u> , 33(19):5920-5 (May 17, 1994). ABSTRACT ONLY.
37.	Lyle, S. et al., <i>Intermediate channeling between ATP sulfurylase and adenosine 5'-phosphosulfate kinase from rat chondrosarcoma</i> , <u>Biochemistry</u> , 33(22):6822-7 (Jun 1994). ABSTRACT ONLY.
38.	Masuya, Y. et al., <i>MAP kinase-independent induction of proto-oncogene c-fos mRNA by hemin in human cells</i> , <u>Biochem Biophys Res Commun</u> , 260(1):289-95 (June 24, 1999). ABSTRACT ONLY.
39.	Meton, I et al., <i>Growth hormone induces insulin-like growth factor-I gene transcription by a synergistic action of STAT5 and HNF-1alpha</i> , <u>FEBS Lett</u> , 444(203):155-59 (Feb 12, 1999). ABSTRACT ONLY.
40.	Mukhopadhyay, K., et al., <i>Use of a new rat chondrosarcoma cell line to delineate a 119-base pair chondrocyte-specific enhancer element and to define active promoter segments in the mouse pro-alpha 1(II) collagen gene</i> , <u>J. Biol Chem</u> , 270(46):27711-9 (Nov 17 1995). ABSTRACT ONLY.
41.	Newberry, E. P. et al., <i>The RRM Domain of MINT, a Novel Msx2 Binding Protein, Recognizes and Regulates the Rat Osteocalcin Promoter</i> , <u>Biochemistry</u> , 38(33): 10678-10690 (Aug 17, 1999). ABSTRACT ONLY.
42.	Nitta, M. et al., <i>CPF: an orphan nuclear receptor that regulates liver-specific expression of the human cholesterol 7alpha-hydroxylase gene</i> , <u>Proc Natl Acad Sci USA</u> , 96(12):6660-5 (Jun 8, 1999). ABSTRACT ONLY.
43.	Pastore, L. et al., <i>Use of a liver-specific promoter reduces immune response to the transgene in adenoviral vectors</i> , <u>Hum Gene Ther</u> , 10(11):1773-81 (Jul 20, 1999). ABSTRACT ONLY.
44.	Rosenthal, e. et al., <i>A multifunctional Urechis caupo protein, PAPS synthetase, has both ATP sulfurylase and APS kinase activities</i> , <u>Gene</u> , 165(2):243-8 (Nov 20, 1995). ABSTRACT ONLY.
45.	Schwarze, Steven R. et al., <i>In vivo Protein Transduction: Delivery of a Biologically Active Protein Into the Mouse</i> , <u>Science</u> , Vol. 285, pp. 1569-1572 (Sep 3, 1999).

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46.	Schwartz, N. B. et al., <i>Sulfate activation and transport in mammals: system components and mechanisms</i> , <u>Chem Biol Interact</u> , 109(1-3):143-51 (Feb 20, 1998).
47.	Seghatoleslami, M. R., et al., <i>Differential regulation of COL2A1 expression in developing and mature chondrocytes</i> , <u>Matrix Biol</u> , 14(9):753-64 (Dec 1995). ABSTRACT ONLY.
48.	Shohat, M. et al., <i>New form of spondyloepimetaphyseal dysplasia (SEMD) in Jewish family of Iraqi origin</i> , <u>Am J Med Genet</u> , 46(4):358-62 (Jun 1, 1993). ABSTRACT ONLY.
49.	Sokolov, B. P., et al., <i>Tissue-specific expression of the gene for type I procollagen (COL1A1) in transgenic mice. Only 476 base pairs of the promoter are required if collagen genes are used as reporters</i> , <u>J. Biol Chem</u> , 270(16):9622-9 (Apr 21, 1995). ABSTRACT ONLY.
50.	Steimberg, N. et al., <i>SV40 large T antigen expression driven by col2a1 regulatory sequences immortalizes articular chondrocytes but does not allow stabilization of type II collagen expression</i> , <u>Exp Cell Res</u> , 249(2):248-59 (Jun 15, 1999). ABSTRACT ONLY.
51.	Strauss, Evelyn, <i>Introducing Proteins Into the Body's Cells</i> , <u>Science</u> , Vol. 285, pp. 1466-1467 (Sep 3, 1999).
52.	Sugahara, K. et al., <i>Defect in 3'-phosphoadenosine 5'-phosphosulfate formation in brachymorphic mice</i> , <u>Proc Natl Acad Sci USA</u> , 76(12):6615-8 (Dec 1979). ABSTRACT ONLY.
53.	Superti-Furga, A. et al., <i>A chondrodysplasia family produced by mutations in the diastrophic dysplasia sulfate transporter gene: genotype/phenotype correlations</i> , <u>Am J Med Genet</u> , 63(1):144-7 (May 1996). ABSTRACT ONLY.
54.	Tewari, D. S., <i>Characterization of the promoter region and 3' end of the human insulin receptor gene</i> , <u>J Biol Chem</u> , 264(27):16238-45 (Sep 25 1989). ABSTRACT ONLY.
55.	Thomas, J. T., et al., <i>Sequence comparison of three mammalian type-X collagen promoters and preliminary functional analysis of the human promoter</i> , <u>Gene</u> 160(2):291-6 (Jul 28, 1995). ABSTRACT ONLY.
56.	Thomas, J. T. et al., <i>A human chondrodysplasia due to a mutation in a TGF-beta superfamily member</i> , <u>Nat Genet</u> , 12(3):315-7 (Mar 1996). ABSTRACT ONLY.
57.	Truter, S. et al, <i>Pro-alpha 2(V) collagen gene; pairwise analysis of the amino-propeptide coding domain, and cross-species comparison of the promoter sequence</i> , <u>Connect Tissue Res</u> , 29(1):51-9 (1993). ABSTRACT ONLY.
58.	Venkatachalam, K. V. et al. <i>Molecular cloning, expression, and characterization of human bifunctional 3'-phosphoadenosine 5'-phosphosulfate synthase and its functional domains</i> , <u>J. Biol Chem</u> , 273(30):19311-20 (Jul 24, 1998).
59.	Venkatachalam, K. V. et al., <i>Site-selected mutagenesis of a conserved nucleotide binding HXGH motif located in the ATP sulfurylase domain of human bifunctional 3'-phosphoadenosine 5'-phosphosulfate synthase</i> , <u>J Biol Chem</u> , 274(5):2601-4 (Jan 29, 1999).
60.	Vikkula, M., et al., <i>Structural analysis of the regulatory elements of the type-II procollagen gene. Conservation of promoter and first intron sequences between human and mouse</i> , <u>Biochem J</u> , 285(Pt 1):287-94 (Jul 1, 1992). ABSTRACT ONLY.
61.	Vincent, J. et al., <i>Oligonucleotides as short as 7-mers can be used for PCR amplification</i> , <u>DNA Cell Biol</u> , 13(1):75-82 (Jan 1994). ABSTRACT ONLY.
62.	Wallis, G. A., <i>Cartilage disorders. The importance of being sulphated</i> , <u>Curr Biol</u> , 5(3):225-7 (Mar 1, 1995).
63.	Wilcox, D. A. et al., <i>Integrin alphaIIb promoter-targeted expression of gene products in megakaryocytes derived from retrovirus-transduced human hematopoietic cells</i> , <u>Proc Natl Acad Sci USA</u> , 96(17):9654-9659 (Aug 17, 1999). ABSTRACT ONLY.

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64.	Xiang, Y. et al., <i>Targeted gene conversion in a mammalian CD34⁺-enriched cell population using a chimeric RNA/DNA oligonucleotide</i> , <u>J Mol Med</u> , 75(11-12):829-35 (Nov-Dec 1997). ABSTRACT ONLY.
65.	Xie, W.F. et al. <i>Trans-activation of the mouse cartilage-derived retinoic acid-sensitive protein gene by Sox9</i> , <u>J Bone Miner Res</u> , 14(5):757-63 (May 1999). ABSTRACT ONLY.
66.	Yamada, K. et al. <i>The histochemistry of complex carbohydrates in certain organs of homozygous brachymorphic (bm/bm) mice</i> , <u>Histochem J</u> , 16(6):587-99 (Jun 1984). ABSTRACT ONLY.
67.	Yanagisawa, K. et al., <i>cDNA cloning, expression, and characterization of the human bifunctional ATP sulfurylase/adenosine 5'-phosphosulfate kinase enzyme</i> , <u>Biosci Biotechnol Biochem</u> , 62(5):1037-40 (May 1998). ABSTRACT ONLY.
68.	Yoon, K. et al., <i>Targeted gene correction of episomal DNA in mammalian cells mediated by a chimeric RNA/DNA oligonucleotide</i> , <u>Proc Natl Acad Sci USA</u> , 93(5):2071-6 (Mar 1996). ABSTRACT ONLY.
69.	Zhou, G., et al., <i>A 182 bp fragment of the mouse pro alpha 1(II) collagen gene is sufficient to direct chondrocyte expression in transgenic mice</i> , <u>J Cell Sci</u> , 108(Pt 12):3677-84 (Dec 1995). ABSTRACT ONLY.
70.	Zou, I et al., <i>Isolation of a liver-specific promoter for human growth hormone receptor gene</i> , <u>Endocrinology</u> , 138(4):1771-4 (Apr 1997). ABSTRACT ONLY.
71.	Zhou, G., et al., <i>Three high mobility group-like sequences within a 48-base pair enhancer of the Col2a1 gene are required for cartilage-specific expression in vivo</i> , <u>J. Biol Chem</u> , 273(24):14989-97 (Jun 12, 1998). ABSTRACT ONLY.

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